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## Abstract

[0103] An insulated barrier comprising first and second gas impermeable rigid walls, preferably of a composite of an organic substrate, such as plastic, coated with an inorganic matrix, such as a metal oxide, adjoining surfaces between the first and second walls in order to create an entirely closed and substantially hermetically sealed structure, a core material between the walls comprising an opencell structure and an optional vacuum breach sensor within the insulated barrier by which the presence of atmospheric oxygen may be detected. Also disclosed is a process by which insulated barriers may be manufactured in accordance with the present invention.